

ABOUT THE DEPARTMENT

The Department of Marine Biotechnology, AMET deemed to be University is established during 2008-2009 with the aim of imparting world class higher education and Research in Marine Biotechnology. Marine Biotechnology is an important field which is still in its infancy and the scope in future are enormous. New pharmaceutical companies are focusing on developing new drugs from marine resources. The enhanced focus on aquaculture will generate thousands of jobs for trained Marine Biotechnologists. The growing use of marine products in the food, cosmetic, and agriculture industries has created a current demand that we can barely meet. The Department of Marine Biotechnology is offering Ph.D. Degree Programme in Marine Biotechnology. The Department identified "Biologically Active Molecules from Marine Organisms" as its core theme of approach, both Research and Consultancy.

Vision of the Department

To be a Centre of Excellence in the field of Marine Biotechnology equipped to nurture world-class bioengineers with a potential to innovate, discover and disseminate knowledge for the welfare of mankind.

Mission of the Department

- To transform into a comprehensive and a multidisciplinary Marine Biotechnology center that supports, coordinates, disseminates and advances in the area of Marine Biotechnology
- To impart quality education for lifelong professional growth and opportunity in a wide range of Careers
- To become a resource center for Marine Biotechnology information and education to create awareness towards socio ethical implications of potentials of biotechnology
- To initiate multi-disciplinary programs through academia-industry interface with a special emphasis on implementation of bioprocess and scale-up
- To endow students with the educational opportunity belonging to different socio-economic background
- To engage in the fruitful research that can be beneficial to create a better society

ABOUT THE UNIVERSITY

AMET is India's First Deemed to be University in Maritime Education which is ranked as 5th among Maritime Universities of the World in the Performance Indicators in Maritime Education and Training (PIMET) Ranking of International Association of Maritime Universities (IAMU). Established during 1993, AMET's uncompromising strides of excellence in the field of maritime education and training laced with its capacity to feed the global shipping industry with an unrivalled maritime human resources secured it to have many national and International recognitions, accreditations and rankings such as NAAC – A Grade, NBA, NIRF, ARIIA, DGS- CIP, PIMET, DSIR - SIRO, etc.

Vision

To sustain identity as a World Class Leader in Maritime Education and empower learners with wholesome knowledge through progressive innovation in training, research and development which will render students a unique learning experience and a transformation impact on the Global Society.

Mission

AMET will strive continuously to

- Impart value-based higher education and technical knowledge with uncompromising strides of an outstanding quality.
- Emerge as a Centre of Excellence inculcating skill development in recent technologies in accordance with industrial trends.
- Create World class research capabilities on par with the rest in the world and broaden student's horizons beyond classroom education.
- Nurture talent and entrepreneurship to enable all round personality development among students.
- Empower students across socio economic strata.
- Make a positive difference to society through technical education.



National Workshop on COPEPOD CULTURE TECHNIQUES FOR AQUA-HATCHERIES

Organized by

**AQUACULTURE RESEARCH LABORATORY
DEPARTMENT OF MARINE BIOTECHNOLOGY**

Date : 26.02.2025 -28.02.2025

Sponsored by



ANUSANDHAN NATIONAL RESEARCH FOUNDATION (ANRF)

(A statutory body created by an Act of Parliament - ANRF Act, 2023)

Formerly, SCIENCE AND ENGINEERING RESEARCH BOARD (SERB)



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About the Aquaculture Research Laboratory

❖ The Department of Marine Biotechnology established the Aquaculture Research Laboratory (ARL) in 2019, with financial support from the Department of Biotechnology (Ministry of Science and Technology), Government of India. The ARL aims to enhance nutrition in fish and shrimp larvae by identifying ideal marine fish larval feed. Its core research areas include Marine Live Feed Culture, Marine Plankton Nutrition, Marine Finfish Seed Production, Live Feed Enrichment, and Plankton Pharmacology.

❖ The ARL successfully completed a major research project sponsored by the Department of Biotechnology and is currently undertaking another major project funded by the Science and Engineering Research Board, Government of India, focused on Copepod Live Feed Culture Technology for augmenting marine finfish seed production.

❖ The ARL is well-equipped with specialized facilities for culturing phytoplankton and zooplankton, along with essential instruments for aquaculture-related research. It has published several research articles in nationally and internationally reputed journals. Additionally, the laboratory has developed technology for the culture of marine copepods and tested their efficacy as live feed for the larval production of commercially important fishes.

About the Workshop

❖ In the era of modern Biotechnology and Aquaculture, only a limited number of marine finfish species have been successfully bred on a commercial scale. The first feeding of fish larvae poses the most significant challenge in larval rearing. Newly hatched larvae of many marine fish species are weak, with underdeveloped vision and body functions. Suitable live food is crucial for their survival at this stage. An ideal live feed should be small, easily digestible, nutritionally rich, and readily available for the larvae. Generally, Copepods possess all these desirable qualities; they are abundant in nature and serve as the primary food source for many fish species. Copepods are widely regarded as superior to Rotifers and Artemia nauplii for fish larvae culture. However, a major bottleneck in utilizing Copepods as live feed is the lack of technologies for their mass culture in hatcheries. This issue is significant on a global scale, and although some technologies have been developed, research efforts are being intensified in this area.

❖ In India, not much effort was made to address this problem until recently. The Aquaculture Research Laboratory in the Department of Marine Biotechnology has developed technology for the mass production of marine copepods and has tested its efficacy for marine finfish larval production. The established culture technology for Marine Copepods

needs to be transferred to stakeholders such as students, researchers, academicians, scientists, and hatchery technicians. This transfer of knowledge could promote commercial-scale marine finfish culture in India, improve the growth performance of fish larvae, support environmental sustainability by reducing reliance on external live feed sources, and provide economic benefits to the aquaculture sector. These benefits include increased production efficiency, enhanced food security, and contributions to sustainable practices and economic growth. In this context, the Aquaculture Research Laboratory in the Department of Marine Biotechnology aims to organize a National Workshop on Copepod Culture Techniques for Aqua-Hatcheries.

Technical Details of the Workshop

1. Collection, Separation, and Processing of Marine Copepods
2. Taxonomical identification of Marine Copepods
3. Culture and Mass Production Techniques of Marine Copepods
4. Seed Production Techniques of Marine finfish larvae using Copepod as live feed

The highlights of the workshop include Hands-on Training, interactions with Eminent Professors and Scientists from Various Central and State Government Research Organizations, Universities, and Institutes, as well as industry experts related to the workshop. Industrial and field visits to aqua hatcheries will also be undertaken.

Participants

Participants include Stakeholders such as Research Scholars, Post-Doctoral Fellows, Scientists, Academicians, and Aqua Hatchery Technicians who may apply for this Workshop. Only 20 Participants will be selected based on their needs and on a first-come, first-served basis. TA/DA will be provided to the selected Participants. The selection of the Participants for this Workshop under the sole decision of the Organizers.

Registration

Participants are requested to submit the registration form using the Google form provided below, along with a brief note explaining how they will benefit from this training. Selected participants will be informed, and upon confirmation, they are requested to pay the prescribed fee through online transfer. Bank account details will be provided at the time of selection notification.

Registration link : <https://forms.gle/WM9NSK2xrreqe4Ua9>

Registration Fee: Rs. 1500/-

Last date of registration : 30.01.2025



National Workshop on COPEPOD CULTURE TECHNIQUES FOR AQUA-HATCHERIES

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ADMISSIONS FOR THE YEAR 2025- 2026 ARE OPEN

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